SIEMENS

Data sheet

3RT2047-1AB00



power contactor, AC-3e/AC-3, 110 A, 55 kW / 400 V, 3-pole, 24 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3 $\,$

40	
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S3
product extension	
 function module for communication 	No
 auxiliary switch 	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	23.7 W
 at AC in hot operating state per pole 	7.9 W
 without load current share typical 	7.3 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	10.3g / 5 ms, 6,.g / 10 ms
shock resistance with sine pulse	
● at AC	16.3g / 5 ms, 10.g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3

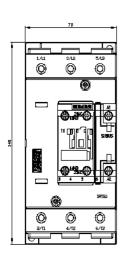
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	1 000 V
• at AC-3e rated value maximum	1 000 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	130 A
value	
• at AC-1	120 A
— up to 690 V at ambient temperature 40 °C rated value	130 A
— up to 690 V at ambient temperature 60 °C rated	110 A
value	
• at AC-3	
— at 400 V rated value	110 A
— at 500 V rated value	110 A
— at 690 V rated value	98 A
— at 1000 V rated value	30 A
 at AC-3e — at 400 V rated value 	110 A
— at 500 V rated value	110 A
— at 690 V rated value	98 A
— at 1000 V rated value	30 A
at AC-4 at 400 V rated value	97 A
• at AC-5a up to 690 V rated value	120 A
• at AC-5b up to 400 V rated value	110 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	98 A
— up to 400 V for current peak value n=20 rated value	98 A
— up to 500 V for current peak value n=20 rated value	98 A
— up to 690 V for current peak value n=20 rated value	98 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	65.3 A
 — up to 400 V for current peak value n=30 rated value 	65.3 A
 — up to 500 V for current peak value n=30 rated value 	65.3 A
 — up to 690 V for current peak value n=30 rated value 	65.3 A
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm ²
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	46 A
at 690 V rated value	36 A
operational current	
at 1 current path at DC-1	100 A
— at 24 V rated value — at 60 V rated value	100 A 60 A
— at 100 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
with 2 current paths in series at DC-1	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	10 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A

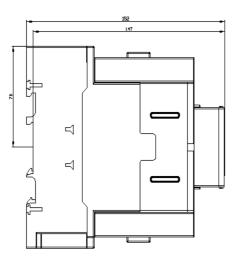
		2.6 A
	-	
- # 110 Y rated value25 Å- # 220 Y rated value0.05 Å- at 200 Y rated value0.06 Å- at 200 Y rated value0.06 Å- at 24 Y rated value100 Å- at 24 Y rated value0.42 Å- at 24 Y rated value0.42 Å- at 24 Y rated value0.42 Å- at 24 Y rated value100 Å- at 24 Y rated value100 Å- at 24 Y rated value0.42 Å- at 24 Y rated value100 Å- at 24 Y rated value0.58 Å- at 240 Y rated value0.58 Å- at 250 Y rated value0.58 Å- at 400 Y rated value <td></td> <td></td>		
- af 220 Vrade value1 A- af 400 Vrade value0.00 A- af 600 Vrade value100 A- af 60 Vrade value100 A- af 60 Vrade value100 A- af 60 Vrade value100 A- af 100 Vrade value100 A- af 100 Vrade value0.02 A- af 220 Vrade value0.02 A- af 60 Vrade value0.02 A- af 74 Vrade value0.02 A- af 74 Vrade value0.02 A- af 740 Vrade value0.02 A		
• with 2 current path in series at DC-3 at DC-3- at 24 V rated value100 A- at 60 V rated value100 A- at 10 V rated value100 A- at 20 V rated value0.42 A- at 40 V rated value0.42 A- at 40 V rated value0.42 A- at 40 V rated value0.42 A- at 60 V rated value0.42 A- at 60 V rated value0.42 A- at 60 V rated value100 A- at 60 V rated value100 A- at 60 V rated value0.5 A- at 20 V rated value0.5 A- at 20 V rated value0.5 A- at 20 V rated value0.5 A- at 60 V rated value0.5 A- at 600 V rated value55 KW- at 600 V rated value55 KW- at 600 V rated value50 KW- at 600 V rated value75 KW- at 600 V rated value30 KW- at 600 V rated value30 KW- at 600 V rated value75 KW- at 600 V rated value76 KW		
		0.06 A
		100 Δ
• with 3 current paths in series at DC-3 at DC-5		
		100 A
at 800 V rated value0.35 Åoperating power55 kW- at 230 V rated value50 kW- at 230 V rated value30 kW- at 400 V rated value55 kW- at 500 V rated value55 kW- at 500 V rated value75 kW- at 600 V rated value90 kW- at 700 V rated value90 kW- at 400 V rated value90 kW- at 400 V rated value90 kW- at 400 V rated value30 kW- at 400 V rated value30 kW- at 400 V rated value30 kW- at 500 V rated value30 kW- at 600 V rated value90 kW- at 600 V rated value90 kW- at 600 V rated value90 kW- at 600 V rated value32 kW• at 400 V rated value24 kW• at 600 V rated value99 kVA• up to 230 V for current peak value n=20 rated value67 kVA• up to 230 V for current peak value n=20 rated value78 kVA• up to 600 V for current peak value n=30 rated value45 kVA• up to 600 V for current peak value n=30 rated value55 kWA• up to 500 V for current peak value n=30 rated value56 kVA• up to 600 V for current peak value n=30 rated value56 kVA• up to 600 V for current peak value n=30 rated value56 kVA• up to 600 V for current peak value n=30 rated value56 kVA• up to 600 V for current peak value n=30 rated va	— at 220 V rated value	35 A
operating power 55 kW • at AC-2 at 400 V rated value 55 kW • at AC-3 30 kW at 230 V rated value 30 kW at 500 V rated value 55 kW at 600 V rated value 55 kW at 600 V rated value 50 kW at 600 V rated value 90 kW at 600 V rated value 30 kW at 230 V rated value 30 kW at 200 V rated value 30 kW at 800 V rated value 50 kW at 600 V rated value 90 kW at 600 V rated value 90 kW at 600 V rated value 90 kW - at 600 V rated value 25 kW • at 40 V rated value 90 kW - at 600 V rated value 24 kW • at 600 V frace value m=20 rated value 32 kW • at 600 V for current pask value n=20 rated value 45 kVA • up to 500 V for current pask value n=20 rated value 74		
• at AC-2 at 400 V rated value55 kW• at AC-330 kW- at 230 V rated value30 kW- at 600 V rated value55 kW- at 600 V rated value75 kW- at 600 V rated value90 kW- at 1000 V rated value90 kW- at 1000 V rated value30 kW- at 230 V rated value30 kW- at 230 V rated value30 kW- at 230 V rated value30 kW- at 400 V rated value30 kW- at 400 V rated value30 kW- at 600 V rated value30 kW- at 600 V rated value30 kW- at 600 V rated value55 kW- at 600 V rated value37 kWoperating power for approx. 20000 operating cycles at AC-4• at 400 V rated value24.3 kW• at 600 V rated value39 kVA• at 600 V rated value57 kW• at 600 V rated value57 kW• at 600 V rated value57 kW• at 600 V rated value78 kVA• at 600 V rated value78 kVA• at 600 V rated value50 kVA• up to 230 V for current peak value n=20 rated value58 kVA• up to 230 V for current peak value n=30 rated value58 kVA• up to 500 V for current peak value n=30 rated value58 kVA• up to 500 V for current peak value n=30 rated value58 kVA• up to 500 V for current peak value n=30 rated value78 kVA• up to 500 V for current peak value n=30 rated value58 kVA• up to 500 V for current peak value n=30 rated value58 kVA <td< td=""><td>— at 600 V rated value</td><td>0.35 A</td></td<>	— at 600 V rated value	0.35 A
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at 500 V rated value75 kW at 680 V rated value90 kW at 1000 V rated value90 kW at 230 V rated value30 kW at 230 V rated value30 kW at 680 V rated value55 kW at 680 V rated value90 kW at 680 V for current peak value n=20 rated value91 kW up to 230 V for current peak value n=20 rated value92 kW up to 690 V for current peak value n=30 rated value45 kWA up to 500 V for current peak value n=30 rated value45 kWA up to 500 V for current peak value n=30 rated value76 kWA up to 500 V for current peak value n=30 rated value78 kW up to 500 V for current peak value n=30 rated value150 2 k. Use minimum	— at 230 V rated value	30 kW
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- at 230 V rated value30 kW- at 400 V rated value55 kW- at 500 V rated value75 kW- at 600 V rated value90 kW- at 1000 V rated value90 kW- at 1000 V rated value37 kWoperating power for approx. 200000 operating cycles at AC-424.3 kW• at 400 V rated value32.9 kW• at 600 V rated value39 kVA• at 600 V for current peak value n=20 rated value39 kVA• up to 230 V for current peak value n=20 rated value67 kVA• up to 500 V for current peak value n=20 rated value84 kVA• up to 530 V for current peak value n=20 rated value84 kVA• up to 530 V for current peak value n=30 rated value26 kVA• up to 500 V for current peak value n=30 rated value56 kVA• up to 500 V for current peak value n=30 rated value56 kVA• up to 500 V for current peak value n=30 rated value78 kVA• up to 500 V for current peak value n=30 rated value78 kVA• up to 500 V for current peak value n=30 rated value78 kVA• up to 500 V for current peak value n=30 rated value78 kVA• up to 500 V for current peak value n=30 rated value78 kVA• up to 500 V for current peak value n=30 rated value70 four• up to 500 V for current peak value n=30 rated value70 kVA• up to 500 V for current peak value n=30 rated value70 kVA• up to 600 V for current peak value n=30 rated value70 kVA• up to 600 V for current peak value n=30 rated value70 kVA• up to 600 V for current peak value n=3	— at 1000 V rated value	37 kW
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no-load switching frequency 5 000 1/h • at AC 5 000 1/h	 limited to 30 s switching at zero current maximum 	707 A; Use minimum cross-section acc. to AC-1 rated value
• at AC 5 000 1/h operating frequency	 limited to 60 s switching at zero current maximum 	562 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency	no-load switching frequency	
	• at AC	5 000 1/h
• at AC-1 maximum 900 1/h		
	• at AC-1 maximum	900 1/h

• at AC-2 maximum	350 1/h
• at AC-3 maximum	850 1/h
• at AC-3e maximum	850 1/h
• at AC-4 maximum	200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	24 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
 apparent pick-up power of magnet coil at AC at 50 Hz 	296 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.61
apparent holding power of magnet coil at AC	
• at 50 Hz	19 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.38
closing delay	
• at AC	13 50 ms
opening delay	
• at AC	10 21 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
• at 60 V rated value	6 A
 at 110 V rated value 	3 A
• at 125 V rated value	2 A
at 220 V rated value	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	96 A
• at 600 V rated value	99 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp

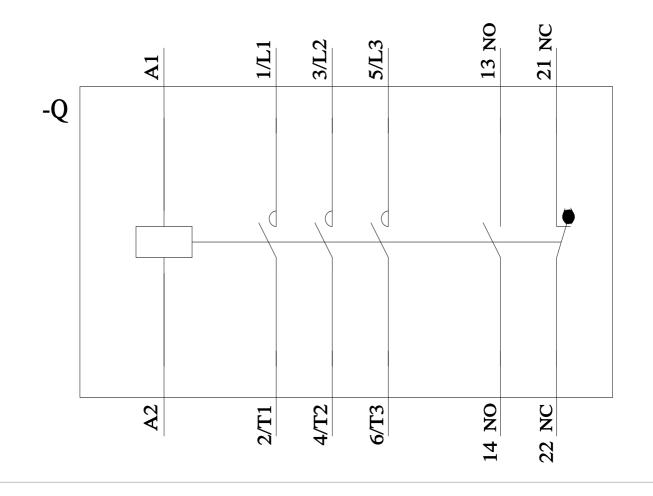
e for 3-phase AC motor				
 for 3-phase AC motor — at 200/208 V rated value 	30 hp			
— at 200/208 V rated value	30 hp			
- at 460/480 V rated value	75 hp			
at 575/600 V rated value	100 hp			
contact rating of auxiliary contacts according to UL	A600 / P600			
Short-circuit protection				
design of the fuse link				
• for short-circuit protection of the main circuit	-0-050 A (000 M 400 MA) -NA 400 A (000 M 400 MA) D000-000 A (445 M 00			
 — with type of coordination 1 required 	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)			
 — with type of assignment 2 required 	gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA)			
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)			
Installation/ mounting/ dimensions				
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and			
	backward by +/- 22.5° on vertical mounting surface			
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
side-by-side mounting	Yes			
height	140 mm			
width	70 mm			
depth	152 mm			
required spacing				
with side-by-side mounting				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
 for grounded parts 				
— forwards	20 mm			
— upwards	10 mm			
— at the side	10 mm			
— downwards	10 mm			
 for live parts 				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	10 mm			
Connections/ Terminals				
type of electrical connection				
 for main current circuit 	screw-type terminals			
 for auxiliary and control circuit 	screw-type terminals			
 at contactor for auxiliary contacts 	Screw-type terminals			
 of magnet coil 	Screw-type terminals			
type of connectable conductor cross-sections for main contacts				
 finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)			
connectable conductor cross-section for main contacts				
• solid	2.5 16 mm²			
• stranded	6 70 mm²			
 finely stranded with core end processing 	2.5 50 mm²			
connectable conductor cross-section for auxiliary contacts				
 solid or stranded 	0.5 2.5 mm ²			
 finely stranded with core end processing 	0.5 2.5 mm ²			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)			
AWG number as coded connectable conductor cross section				
• for main contacts	10 2			
 for auxiliary contacts 	20 14			

 enviror contact according to EEC 60947-5-1 No No<th>afety related data</th><th></th><th></th><th></th><th></th><th></th><th></th>	afety related data						
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